

Record

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Lepidoptera p1
mosquitoes p 100 (1905)

Lepidoptera

Egg of *Admetia bicandata*, ♀ from Tyni, NC. 1 juv. hatched Aug. 9. Mated in cage at Washington D.C. July 28-29 1905. Eggs night July 29-30.

Egg singly or in little groups of 3-4 partly overlapping elliptical, colorless shiny, flat, normal, the surface faintly reticular. Yolk from same opaque central mass with transparent rim. Size $1.4 \times .8$ mm., rather large egg.

On leaf shiny transparent like wet spots.

Hatched Aug. 9 colorless whitish with smooth skin (drawing of 1st inst. and slide G.V.). Did not eat but gathered in groups as laid in shed. Shed Aug 11 horns 3-5, 8, 11-12 apical large densely spined, 6, 7, 9, 10 minute with one tubercle & one spine only & approximated to the adjoining horn. 13 small with 2 or 3 spines. 2nd inst. with 3-4 spines except 3 & 4 which are longer and rounded more. Skin rather densely granular smooth and without marks. Spine with large tubercular clear base and

Sample

Aug 11. 9 mm width

" 12. 1.0 " "

" 13. 1.4 " eat

" 14. 1.6 " "

" 15. 1.4 to shed?

" 16. 1.6 " "

" 17. 1.8 eat

" 18. 1.4 by hole

" 19. " to shed

" 20. " "

" 21. " "

" 22. 1.6 eat

" 23. 1.4 still

" 24. 1.4 weak

" 25. 1.4 eat

(new sample)

Aug 25. 1.8 to shed

" 26. 1.8 "

" 27. 1.8 "

" 28. 1.8 "

" 29. 1.8 by hole

" 30. 2.0 eat

" 31. 2.3 "

Sept 1. 2.3 "

" 2. 2.3 "

(new sample)

Sept 2. 2.7 still

" 3. 2.8 eat

" 4. 2.8 to shed

" 5. " "

" 6. " "

" 7. " "

" 8. 3.4 eat

" 9. 3.6 "

" 10. 3.8 "

" 11. 3.8 "

" 12. 3.8 to shed

" 13. " "

" 14. " "

" 15. 4.2 eat

" 16. 4.6 still

" 17. " to shed

" 18. " "

" 19. " "

" 20. 4.5 by hole

black tips. Shape elliptical rounded behind, dorsal nearly level. A row of fine hairs on each edge of the head. (slide) Some shed Aug 20 as before. Horns 1 large round well spined, 6, 7, 9, 10 represented by 4 or 5 spines in skin approx. to neighboring horns.

2nd inst. round, all elevated. Skin granular depressed. All whitish green, no marks. Depressed spaces (1) faintly indicated paired, the ones of the large sd horns slightly whitish. Elliptical flattened, rounded apically, narrow behind. Horns 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

Aug 24, tapered behind and more flattened. No sign of color. Later when to shed white thick area under long horns 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

Shed Aug 29 (1st) elongate, flattened, tapered behind, the ends truncate, sitting a little curved. Horns 1 round, large, subequal on 3-5-8-11, 12, 13 small, not yet produced

short horns 7-10 round well spined, not so strongly approximated to the neighboring ones. Horns 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

small, subequal. Skin densely granular depressed. Depressed spaces (1) distinct, paired, a little whitish.

Translucent greenish, a narrow white line along the whole length. Horns slightly yellowish tinted with a trace of brown shading at the ends of the body.

Sept 2. One at 2.7 mm. Head fixed to shed? Another Sept 3, 3 mm. has traces of color. The yellowish white 1 horn is broken into 6 oblique oblong horns under the long horns 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

elsewhere faint. There is a fine linear white oblique d. line broken most dist. centrally dividing the mass white (1) dots. A slight purplish infiltration in d. sp. between these marks on 6-7 and 9-10. Both 2.8 and 3.0 to shed Sept 4. Small are got the yellow arcs but the d. line scarcely and no purple infiltration.

Shed Sept 7 (1st) elongate, flattened, tapered behind, the

1 horns of 13 about as long as those of 12, the rest subequal, 6, 7, 9, 10 very small. 2 horns 3, 4 moderate, than rest, small. Green, whitish along the sides

1 horns yellow with a yellowish white sd band below them narrowed in the space between the

under the d. sp. which is sp. elliptically widened at the short horns 6-7, 9-10. A broken white d. line, (1) dots greenish impressed. A slight purple infiltration all along d. sp. between the marks.

Sept 12. settled in a corner to shed. 3.8. The other one with marks also to shed and only 3.9 mm. Two

others got to be 4.1 and 4.2 also to shed. Same appeared
 Shed Sept 14 Horns ①13 distinctly elongated into tails, longer
 than ①12. Elliptical, sides wide centrally and flattened
 dorsum long, straight narrow. Horns moderate, the short
 ones ① 6, 7, 9, 10 distinct, separate, almost as large as the
 ① horns of which 3, 4 are stouter but hardly longer than 6
 green, sd ridge broadly yellow, narrowed at horn's base
 coarsely d. sp. to top and there apparently. A broken white
 d. line traveling white dots (1), d. sp. partly purple filled.
 Broken yellow line beneath ① horns. Horn yellow, that of 3
 slightly red tipped. Spines black. Skin densely punctate
 above. Set depressed spaces show faintly as large kidney
 shaped hollows, concolorous.
 Shed Sept 20 and ate whole leaf.

1379

♀ 39610 Hardy Mg. Aug 18-19 1905. Elliptical, narrowed
 at anterior end, all segments rounded, no flattening,
 rounded end with a broad raised white ring which is
 fairly elliptical and lies broad on dorsal and broad
 on ventral side. Soft yellow green, not shiny, the ellipse
 contrasting white. Coarsely, somewhat pitted, shagreened
 no reticulation, smeared by yellowish glue. 1 x .6 x .5

39610

Ennomus
subsignarius



39610

Ennomos
autsignarius

others got to be 4.1 and 4.2 also the shed. Same appearance
 Shed Sept 14 Horns ①13 distinctly elongated into tails, longer
 than ①12. Elliptical, sides wide centrally and flattened
 dorsum long, straight narrow. Horns moderate, the short
 ones ① 6, 7, 9, 10 distinct, separate, almost as large as the
 ① horns of which 3, 4 are stouter but hardly longer than 6
 green, sd ridge hardly yellow, narrowed at short horns
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 d. line traveling white dots (1), d. sp. partly purple filled.
 Broken yellow line beneath ① horns. Horn yellow, that of 3
 slightly red tipped. Spines black. Skin densely punctate
 above. Lat depressd spaces show faint as large kidney
 shaped hollows, concolorous.
 Shed Sept 20 and ate whole leaf.

1379

by ♀ 39610 Hardy Mg. Aug 18-19 1905. Elliptical, viviparous
 and antennae. all all segments rounded, not flattened,
 rounded end with a broad raised white ring which is
 sharply elliptical and lies broad on dorsal and thin
 on ventral side. Soft yellow green, not shiny, the ellipse
 contrasting white. Coarsely, somewhat pitted, shagreened
 no reticulation, smeared by yellowish gloss. 1 x .6 x .5

1380

Dr. Künze's cactus worm, *Cospidogaster cosyza* Druce
 alive in alcohol Sept. 1905. Hd. 4.2 mm about
 as high as wide, rounded, a little quadrately
 angled, thick, vertical notch slight & large
 reaching $\frac{1}{2}$ to outer with moderate para-
 and large epistoma white with gray black
 spots composed of confluent dots, in the 2 only
 on the setae but the para & entire of black,
 a black area over ocelli surrounded by white,
 and a moderate white space in a line over
 vertex of lobes. Body cylindrical, robust, joint 12
 enlarged. Feet normal, stout, rather short,
 tubercles very large, somewhat elevated in
 the centers, black, shiny, normal, IV st. best,
 ia-ii & iii well separated two of each, st. best
 detached & smaller. Shields undifferentiated, the
 thor. feet and abd. hypopleth shiny black.
 Body broadly fleshy brown in the incisures, else-
 where white dotted with black the white
 encircling the tubercles. D. sd & s-v white
 bands, indistinct-irregular edged, cutting the
 brown interspaces or only slightly inter-
 rupted there a little dotted with black
 on the legs, obsolete toward the ends, the
 d. & sd yellowish white, the s-v pure white.
 anal feet white black dotted. spiracles
 black. Setae long, very coarse and stiff,
 white. Genitalia immaculate flesh color
 the insides of the legs whitish.

[See other book]

Mosquitoes

T1 Tupper Lake, Noddy, N.Y. 3 larvae in a rock pool on Island in Lake near water. Dorothy found them. Took me T1-1

T2 Noddy N.Y. Larvae in swampy places with reeds and in pools by the road full of algae (*termitans*) Isolated 1-2, 3-6

T3 Noddy N.Y. In roadside pool in woods full of leaves. Isolated 1, 2, 3-5

T4 Road puddles Aug 4. Larvae all sizes pupae.

T5 Noddy N.Y. Aug 4 in a swampy clearing in the woods Isolated 1-2

T6 In a hole of permanent water near Tupper Lake reservoir full of tadpoles. Aug 5

T7 *Atropalpus* in I-III in rock hole below upper lake level near *Sargassum* cottage Aug 7. Hd. rounded. Eyes round small, hairs single, egg breaker triangular, raised in a transparent area. Antennae mid-estate, $\frac{1}{2}$ head, a single hair at midale. Darkly infuscated antennae pale, uniform. Thor. cold colorless with long lateral hairs as far as 5th abd. 1-6-7 with very short pale ones. Tube large thick subcylindrical nearly uniform, about $2\frac{1}{2} \times 1$, the tip $\frac{1}{3}$ infuscated. Pecten of spines teeth running to infuscated apex, the hair of teeth near midale. Comb of 9 seg. a single row of scales. Anal seg with dorsal plate & terminal hair. Larvae fills thick uniform about $2 \times$ square. Tracheae linear, wavy in the seg. and bent within the tube.



T8. Tupper Lake N.Y. Aug 9 1905. Eggs like *Culex* eggs but in a mass of jelly in swamp with *Sargassum* etc. Mass flat, like a disk egg in irregular spiral separated by jelly. Everyth black, spindle shaped. (alcohol)

T9. Grassy puddle in field, Elizabethtown N.Y. Aug 8 1905. Warm water not in the woods. *Sylvesteria* & *Aedes*?

T10 Cobble Hill ice caves pool Elizabethtown N.Y. Aug 8 '05 a few pupae and 1 larva (T10.1) of *absobrinus*, some grabe jacks (*Corethra*) and whales (*Eucorethra*) and a lot of little larvae, *Sylvesteria* et al (T10.11)

T11 Tupper Lake N.Y. Aug 9 1905. Swamp with central open pool and grassy edges, with T8. 2nd *territans* (T11.1), *Sylvesteria* 2? in edge pools (T11.11) and *Manitacenia*, 3 in I and one in III (T11.11) but they all did come home

T12 Tupper Lake N.Y. Aug 9 1905. Big sphagnum swamp full of *Vaccinium*, moss and pitcher plants & dead trees. Isolated *territans* (T12.1, 2, 3-4, 5, 6) ^{canadensis} *territans* ^{agani} *restuans*

T13 Tupper Lake N.Y. Aug 9 1905. Little rusty springy pool at foot of railroad embankment. Came out *Sylvesteria* and *restuans*

T14 Sull Pond Swamp, Tupper Lake Aug 11 1905, also Aug 12. Isolated 1-2 *territans* and *melanurus* Aug 23 isolated 3(?) 4 *restuans*?, 5 *Sylvesteria*? *melanurus* (pupae to Miss Mitchell Aug 21). More from center pupated Aug 31, 6-7, 8, 9, 10-11, 12-14.

T15 Water hole from overthrown tree near edge of bog of Tupper Lake reservoir Aug 14 1905. 4 larvae with pupae *Eucorethra* and *Corethra*. *absobrinus*

T16 Stage I in a spring pool near Tupper Lake reservoir Aug 19 1905. Sexual, all in I. Shed Aug 21 = *Sylvesteria*

679⁵/₈

